

1 PCS proceedings. As I'm here representing the
2 manufacturer from a financing prospective no
3 further reference will be made to those positions.

4 I am employed by AT&T Network Systems,
5 therefore my views on finance are from a supplier's
6 prospective.

7 I think the first thing here is where is
8 the money going to come from to get this new
9 business started, let it remain viable, and grow.

10 We believe that that's the question that
11 the FCC invited this panel to answer. And I think
12 to facilitate that question they provided three sub
13 questions: What market and regulatory factors
14 will make PCS a viable business, what type of
15 financing will support PCS, and how can the
16 Commission best create realistic opportunities for
17 designated entities.

18 With respect to the first question I will
19 focus on the problem, three environmental factors
20 that in our view will contribute to the viability
21 of PCS, number of licenses, geographic scope, build
22 out requirements.

1 In general the decision to provide
2 financing is based on perceived risk and return
3 expectations. The higher the risk profile, the
4 higher the expected return, and the lower
5 probability of finding investors willing to
6 invest.

7 Therefore, investment opportunities with
8 the perception of extremely high risk will lack for
9 investors. We believe that there will be a direct
10 correlation between the number of licenses granted,
11 the geographic scope, the associated build out
12 requirements, and the economic viability of such a
13 venture.

14 The combination of a small geography and
15 a high number of licenses with less than aggressive
16 build out requirements theoretically creates a
17 highly competitive environments which is one of the
18 Commission's objectives.

19 However, such an environment may not
20 appeal to investors, either debt or equity. Simply
21 because predictions of viability will be more
22 difficult.

1 Each licensee must have access to a
2 sufficiently-sized population so that reasonable --
3 so that at reasonable penetration rates their
4 business venture will be a viable one.

5 It is impossible to state with any degree
6 of certainty just how the mandated build out period
7 will produce the PCS performance data that
8 investors normally look for prior to making
9 investment decisions.

10 However, we believe the longer the time
11 frame before PCS specific performance data is
12 available, the longer the period before investors
13 come on board in significant numbers. Come on
14 boards in signature numbers.

15 Industry specific data remove uncertainty
16 and stimulate rational investment. As a result we
17 suggest that the build out requirements be
18 revisited to ensure that they are closely linked to
19 market demand and provide investment opportunities
20 that attract investors.

21 The second question, we believe the
22 license acquisition will be financed strictly

1 through equity.

2 The economic potential of this market in
3 the proposed environment with such -- so much
4 uncertainty will make it difficult to find debt at
5 this time.

6 On the third question I want to address
7 something that is very important. We believe to
8 mitigate against the unintentional warehouse of
9 licenses which would be due to insufficient capital
10 to progress to the build out phase, the Commission
11 may wish to consider establishing a total
12 capitalization adequacy test as a form of
13 prequalification for anyone entering the bidding
14 process. Thank you.

15 MR. OXENDINE: Okay. This is not an easy
16 one. We were asked to answer three questions, what
17 market and regulatory factors will make PCS a
18 viable business, what type of financing will
19 support PCS, how can the Commission best create
20 realistic opportunities.

21 That's a lot to answer in five minutes.
22 I'll have to refer to my notes. I think that with

1 regard to encouraging participation of designated
2 entities, namely women, small business, rural
3 telcos, it is important for us to create some
4 meaningful opportunities. And in order to do that
5 or we need some resources.

6 We as minorities, women, and small
7 business do not have sufficient resources or
8 experience or expertise to do it by ourselves.

9 So I think the Commission has to look at
10 some preferential provisions for us. Specifically
11 the Commission has looked at spectrum set asides,
12 tax certificates, and installment payments.

13 And I think each of these are invaluable
14 for us. But recently the Commission had wanted to
15 reexamine policies regarding tax certificates --
16 well, not tax certificates, but reexamine some of
17 its policies. And I think that while they should
18 reexamine them they should not completely eliminate
19 them because they are reexamining them.

20 For example, one concern of the
21 Commission -- and I imagine everybody's -- is that
22 set asides are for minority and women only, but in

1 fact if these set asides supposedly include small
2 businesses, minorities and women, and all of us
3 qualify to bid on supposed set asides, then there
4 ought not to be any constitutional problems with
5 set asides.

6 So I think that it is dangerous to look
7 at set asides and then eliminate them. I think if
8 we look at set asides we'll probably want to keep
9 them.

10 Initially I said that I don't think we
11 are as minorities have a heck of a lot of money.
12 Having been a former banker and currently a venture
13 capitalist, I think putting on my business hat I
14 would like to see people come to the table who have
15 some experience. And we are going to have to do
16 that perhaps with some joint ventures.

17 So I kind of suggest that we as
18 designated entities should be able to joint venture
19 with other companies who both offer us some
20 telecommunications experience as well as some
21 dollars.

22 And I know the Commission is concerned

1 about preventing designated entities being fronts.
2 And consequently they have put some pretty tight
3 rules regarding having a 50 percent ownership and
4 50 percent control.

5 But I think that these ownership
6 restrictions need to be looked at. Specifically
7 being a radio person and owning some television
8 stations I know that I'm able to do that having had
9 control of my stock but at the same time not having
10 50 percent equity interest in my company.

11 And I would hope that the Commission
12 would be able to revisit that issue and look at the
13 fact that perhaps they would be a little bit more
14 flexible and not ask that you have to have 50.1
15 percent ownership as well as 50.1 percent control.

16 The Commission has looked at additional
17 preference options for the designated groups. And
18 it has been suggested that there be a two-year
19 moratorium on the installment of payment.

20 And I think as a venture capitalist I
21 think that makes some sense because when you have a
22 business you have to make sure that when you build

1 it people have an opportunity to pay back whatever
2 they borrowed. So this option they are looking at
3 for a two-year pay back I support.

4 Currently the Commission does not allow
5 the cellular companies to get involved with the
6 designated entities as such, and I think that
7 that -- I won't say that might be a mistake, but I
8 think that we as minority entrepreneurs can use
9 some of the expertise that the cellular folks
10 have. And it might make some sense for us to work
11 with them.

12 MR. GIPS: Mr. Wilkins?

13 MR. WILKINS: Instead of trying to go
14 back over where everybody has been I think I will
15 try to pick up because nobody seems to be able to
16 finish.

17 I believe that the significant points
18 here are that in order for anyone to be successful
19 in this industry there has to be some assurance as
20 Al indicated earlier there is equity in place that
21 will allow that person or company to finance out
22 their operations.

1 The cost of building the infrastructure
2 necessary to support PCS/PCN under the current
3 license structure is significant. And clearly very
4 few people other than major companies can afford
5 the capital to build out and competitively pursue
6 the development of PCS/PCN with the current license
7 structure.

8 I believe that the size in the licenses,
9 the area, the geographic area should be reduced
10 markedly. I think that instead of having the
11 number that we are being asked to have now there
12 should be at least two to three times that number
13 of license areas.

14 I'm not sure how geographically one would
15 break up the nation to create perhaps as many as
16 1500 licenses. But I think that that is necessary
17 if the Commission wants to achieve the kind of
18 diversity of ownership.

19 I think that that kind of definition of
20 size, of license size, should run to a 20 megahertz
21 block and as well to a 10 megahertz block to.

22 I believe that in addition to reducing

1 the size that the Commission in providing for
2 designated entities the opportunity for financing
3 the Commission should consider carefully an
4 alternative to debt.

5 And that alternative would be an equity
6 stake in each of the designated entities with the
7 Commission taking perhaps a warrant in each of the
8 designated entities as opposed to some kind of
9 debt.

10 The Commission if it wanted to in some
11 way monetize its equity holding it could set up a
12 secondary market in warrants or other kinds of
13 equity securities. It could block those equity
14 securities, securitizing some other kind of
15 instrument.

16 So that in effect the government could
17 realize the cash state that it wanted now without
18 necessarily hindering the development of the PCS
19 PCS/PCN licenses.

20 In order for someone to be competitive in
21 the 20 to ten megahertz blocks, that entity has to
22 really have the capability of providing the

1 differentiated service to the public.

2 They cannot come in and provide PCS/PCN
3 service as the 30 megahertz block will or they will
4 lose from a competitive standpoint. And to be
5 competitive, to have the capability to offer
6 differentiated service, one has to have the
7 capacity to go to the market and have the market
8 when it pursues a financing receive the potential
9 for success.

10 And that potential for success is
11 enhanced to the extent that there are not debt
12 burdens associated with a designated entity, to the
13 extent that there aren't encumbrances associated
14 with the ownership that is the 51 percent
15 limitation and/or the resale of the license.

16 I think that to the extent that the
17 Commission and/or the government would take an
18 equity interest a lot of those concerns would go
19 away.

20 The government should prequalify all of
21 the designated entity holders so that in effect the
22 problems of how much equity an entity holds would

1 be eliminated prior to the auction actually taking
2 place.

3 And once the auction had been completed,
4 the designated entity or any other party would be
5 free to sell that license on the open market. That
6 in fact would provide an enhanced basis for raising
7 capital in the marketplace.

8 MR. GIPS: Mr. Rissman?

9 MR. RISSMAN: As an equity
10 telecommunications analyst for a firm with about
11 \$35 billion to invest and about 15 percent of that
12 going to our telecommunications issues judging from
13 the previous comments it looks like we are going to
14 be seeing some activity.

15 I have to preface my remarks with the
16 fact that on Wall Street perception is everything.
17 What we think we know is true makes all the
18 difference. It may be true. It may be false.
19 Everything is what is in our minds. Too bad. The
20 market is like that.

21 The environment that PCS would be born in
22 will be very hostile, extremely hostile. You know,

1 I'm assuming 1994 -- late '94 options. I'm
2 assuming a two-year build out period. By then I
3 think the addressable base will be 25 to 30 percent
4 penetrated with existing cellular services.
5 Everything will be digital. Costs will have
6 declined for the incumbents. Seamlessness.
7 Nationwide basis will be there. Microcells will be
8 there. People will have events intelligent network
9 capabilities so that you will have one person, one
10 number service. It will be a very full service
11 cellular incumbent environment. It will be very
12 tough to match those full services.

13 Based on the applications some -- some
14 applications will die. Some applications might be
15 able to slip under the door. A ME 2 (phonetic)
16 application, it's dead on arrival. The best
17 customers are gone.

18 PCS might be the only alternative service
19 that does not have national seamlessness. If P-Tag
20 (phonetic) goes with CDMA and if somebody else goes
21 with GSM you're not going to be able to use the
22 same handset.

1 The incumbents, the cellular incumbents,
2 will offer one person one number service. If you
3 are a ME 2 (phonetic) cellular system, you are
4 going to start building out macrocells. Your
5 competitor is going to say well, look, I have
6 macrocells. I have microcells. You can use your
7 handset in your car. You can also use it in your
8 house.

9 The PCS competitor comes and says hey,
10 look, you can use your handset in your car. Big
11 deal. For that reason because they can't compete
12 on services they will be forced to compete on
13 price.

14 Because the cellular operators will
15 probably enjoy a price advantage, on a ME 2
16 (phonetic) cellular service the PCS guys will be
17 the first ones out of business.

18 Cordless long distance access might be a
19 fairly viable alternative in the short term but
20 that is only an arbitrage of the subsidies.

21 And as those subsidies go away, as things
22 become more rational, these guys won't have a

1 reason to exist.

2 It is possible -- I can think of one
3 investible application and that is optimize your
4 system. Current cellular systems are optimized for
5 vehicular service. Optimize your system for people
6 who are in their homes and who are walking around.

7 There is a lot of equipment that you
8 don't need, equalizers, echocancelers, things like
9 that. You started with that and then build out
10 your service slowly to become a macro cellular
11 service. You might have to charge more than a
12 cellular incumbent for macro cellular. You can
13 charge less for micro cellular. You might be able
14 to get it that way.

15 The final point is give PCS operators as
16 much as you possible can give them. That will --
17 only that will ensure their success. We do not
18 want to finance anything that we have doubts about
19 whether their system will work.

20 If you come to us with proven amount of
21 spectrum and you may get financing.

22 MR. GIPS: Thank you. A little

1 depressing, but thank you.

2 MS. PERETSMAN: I'm Nancy Peretsman. I'm
3 a managing director of Salomon Brothers. I had
4 relished the opportunity to come down here today
5 and get away from the recent pessimism of the
6 street, but here I am again.

7 UNIDENTIFIED SPEAKER: That's the streets
8 for you.

9 MS. PERETSMAN: That's right. I'm on the
10 investment banking side of the business. I thought
11 I would really limit my remarks specifically to the
12 questions of what type of financing will support
13 PCS, in that that is a marketplace with which I
14 have the highest familiarity.

15 If one of the axioms that was advanced
16 earlier is that perception is everything, the
17 second axiom of the street is that history repeats
18 itself or learn by example.

19 The last part of that axiom is there is
20 really nothing ever new. And based on theory I
21 thought that the best way to consider how PCS might
22 be ultimately be financed is to look at some of the

1 recent models we have had in the marketplace.

2 We have case studies clearly in cellular
3 business. We have case studies in SMR, in cable,
4 in the CAPs (phonetic), and even to some extent in
5 the United Kingdom cable and telephony businesses.

6 What these businesses all had in common
7 is that they sourced from banks -- not in this
8 particular order -- but from banks, the financial
9 markets, the venture community, and the strategic
10 investors capital for businesses that yet weren't
11 fully operational in terms of the cash flow,
12 meaning that the cash from those businesses didn't
13 in and of itself support those businesses.

14 The question that always strikes one was
15 well, okay, how do they do it because maybe we will
16 learn something here. What is interesting is if
17 you look at each of these case studies, and they
18 vary depending on the peculiarity of that
19 particular time, place is that there are some
20 similarities.

21 One is what we call establishment of
22 franchise value. Many of these industries were

1 able to finance themselves because they could prove
2 to the financial market that there was a franchise
3 value.

4 Now, what does a franchise value really
5 mean? In its most distilled terminology it is that
6 there is a buyer for these assets and the price
7 that the buyer would pay is ascertainable.

8 If you go back to the early days of
9 financing of cellular, if you go back 12 years ago
10 to when some of us were out there trying to raise
11 money in the cable business, at the end of they day
12 the comfort that the financial community was able
13 to get, whether it was the providers of debt or
14 even to some extent with the providers of equity
15 were, well, if we gave up this franchise, what
16 would somebody pay for it?

17 And that allowed if you will a base case
18 to establish a frame work from which people could
19 calculate estimates on financial return.

20 Obviously this is a slightly different
21 world that we were considering in PCS because
22 franchise value is going to be a function of

1 competition, and it is also going to be a question
2 of franchise value and to whom.

3 One of the questions that I think is
4 legitimately on the table is we have been talking
5 about competition among the wireless operators and
6 how competitive that might be.

7 The gentleman to my left I think
8 introduced a very interesting concept a few minutes
9 ago and that is the question of the true definition
10 of the telecommunications marketplace.

11 Is this really competition among the
12 wireless providers, or is it in fact this
13 competition among all the possible providers of
14 telephony service? Because we are, I would argue,
15 looking at a model that is going to suggest that we
16 have many more possible components here providing
17 services going forward.

18 The second aspect that I would say if I
19 were to grossly generalize over some of the trends
20 that have underscored the financing of the
21 different industries is that there was either early
22 strategic money that went into that industry and

1 made a difference, or there was very deep pockets
2 by -- best described by people who believed.

3 When you had Craig McCaw (phonetic)
4 selling cable systems -- thank you.

5 MR. GIPS: Finish your sentence.

6 MS. PERETSMAN: Well, you can come back
7 to me in Q&A.

8 MR. GIPS: Mark?

9 MR. ROBERTS: Now I know why Paul Rissman
10 does not return my phone calls.

11 My name is Mark Roberts. I'm a
12 telecommunications analyst with Alex, Brown &
13 Sons. To preface my comments and put them in some
14 context, we are the oldest investment banking firm
15 in the United States.

16 We have made a specialty out of focusing
17 on growth and emerging growth industries. We --
18 for example, since 1980 we have done more initial
19 public offerings of companies than any firm on Wall
20 Street.

21 We spent a lot of time studying PCS. And
22 I think we might have a view that is a little bit

1 differentiated than some others that you'll hear
2 from on Wall Street.

3 I think part of this is we have not done
4 a lot of the investment banking work for the
5 incumbent cellular service providers which we think
6 tends to bias the view somewhat.

7 Let me state my basic premiss. We
8 believe that personal communications services will
9 be rapidly deployed at price points likely to
10 stimulate significant demand and foster rapid
11 growth if licensees can acquire large blocks of
12 contiguous spectrum covering large,
13 economically-significant areas.

14 Two points, competition will be the
15 driving force behind the deployment of PCS. And at
16 our firm we see significant linkage between rapid
17 deployment of PCS and regulatory and legislative
18 efforts to introduce competition into other forms
19 of voice, video, and data communications.

20 Second point, the ability of PCS to
21 compete with cellular is critical. Because we
22 believe at a minimum, full cellular mobility is the

1 first visible market for new PCS entrants.

2 We are also think that the nature of PCS
3 will tend to favor large dominant communication
4 service providers because first of all PCS networks
5 are going to be very capital intensive, very high
6 fixed cost networks that require heavy investment
7 well in advance of any revenues or potential
8 investment returns.

9 Secondly, PCS makes the most economic
10 sense and tends to have the highest value to the
11 licensee when it is leveraged off of an existing
12 wire line backbone such as an inter exchange
13 carrier, a local telco, cable TV, or even a
14 competitive access provider.

15 Now, we think the license structure
16 issues that will make PCS a viable business and
17 tend to maximize the auction bids are one, a
18 minimum of 30 megahertz of contiguous spectrum,
19 two, minimum of an MTA license size, and three,
20 that you minimize the timing of the availability --
21 the timing of this new service, that the auction
22 should go forward very quickly.

1 Let me expand on that very briefly. The
2 30 megahertz license size, PCS entrants must get
3 contiguous blocks of spectrum so that they can
4 efficiently compete and have a similar cost
5 structure to the incumbent's cellular service
6 providers that have 25 megahertz.

7 Secondly, license sizes of less than 30
8 megahertz are likely to permanently lock in premium
9 investment returns for the cellular industry. Now,
10 this will inhibit PCS deployment and inhibit their
11 ability to raise capital.

12 The minimum MTA license sizes are
13 similar, you reduce the time of after market
14 aggregation and the cost of aggregation which tends
15 to increase the amount someone can bid and the
16 shortens their time to deployment.

17 Thirdly, the biggest risk, as I have
18 already mentioned, is that the license -- that you
19 structure the licenses in such a way that it
20 requires a lot of after market aggregation which
21 expands the time to market.

22 The longer the time to market, the lower

1 the expected investment returns, and the higher the
2 cost of capital will be, the harder time I will get
3 Paul from returning my phone calls.

4 Lastly, let me close by saying that we
5 are very -- we find PCS very attractive.

6 MR. GIPS: I like that closing. I would
7 actually like to start by pushing further on the
8 part that Mark was just making and have some of the
9 other panelists comment on what is the amount of
10 spectrum we have to provide for PCS to be viable in
11 terms of being able to attract financing. And it
12 is open to anyone.

13 MR. RISSMAN: If I could answer your
14 question this way. Right now we don't know what
15 the size of the spectrum award is that will work.

16 We have consultant studies that say 20
17 megahertz is fine. We have consultant studies that
18 say 30 megahertz is fine. We have consultant
19 studies that say you need at least 40 megahertz.

20 All I can tell you is that Mercury one to
21 one has 50 megahertz of cleared spectrum that it
22 doesn't don't have to share with anybody, and they

1 are successful.

2 Incidentally, they claim that 50 megahertz
3 allowed them to reduce their capital expenditure
4 cost by 20 percent over what it would have been if
5 they had been given a plain old cellular spectrum.

6 So what we would like to see is a
7 spectrum grant that we know is going to work. We
8 do not want to see a spectrum grant where we will
9 be scratching our heads saying, boy, if this
10 doesn't work our money is down the drain.

11 There is enough risk in this as it is
12 that the size of the spectrum grant does not have
13 to be the issue around which the risk turns.

14 MR. GIPS: Is there a tipping point.

15 MR. RISSMAN: All I can tell you is we
16 know it works for 50 megahertz. We don't know
17 whether it works for anything else.

18 MR. GIPS: Mark?

19 MR. ROBERTS: Let me -- yes, I will
20 expand on my earlier comment briefly because we are
21 currently working with a number of the technology
22 providers and have talked with a number of the